

A New Species of the Genus *Leptopholcus* (Araneae: Pholcidae) from the Yaeyama Islands, Japan

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入江照雄¹⁾：八重山諸島産マシラユウレイグモ属

(クモ目：ユウレイグモ科) の 1 新種

Abstract A new species of the spider family Pholcidae is described from the Yaeyama Islands, Japan, under the name of *Leptopholcus tanikawai* sp. nov. The genus *Leptopholcus* is newly added to the Japanese fauna.

The genus *Leptopholcus* (Pholcidae) was established by Simon (1893) based on the type species *L. signifer* Simon, 1893 described from Congo.

Up to the present, the members of the genus *Leptopholcus* have been recorded from Africa, Madagascar, Borneo and Brazil. In this paper, I describe a new species of the genus *Leptopholcus* from Ishigakijima Island and Iriomotejima Island, the Yaeyama Islands.

All the type specimens are deposited in the collection of the National Science Museum (Nat. Hist.), Tokyo.

The abbreviations used in this paper are as follows: ALE, anterior lateral eye; AME, anterior median eye; Cp, length of clypeus; OA, ocular area; PLE, posterior lateral eye; PME, posterior median eye.

I wish to express my sincere thanks to Mr. Akio Tanikawa, Kanagawa, for offering many invaluable specimens.

Leptopholcus tanikawai sp. nov. (Figs. 1-5)

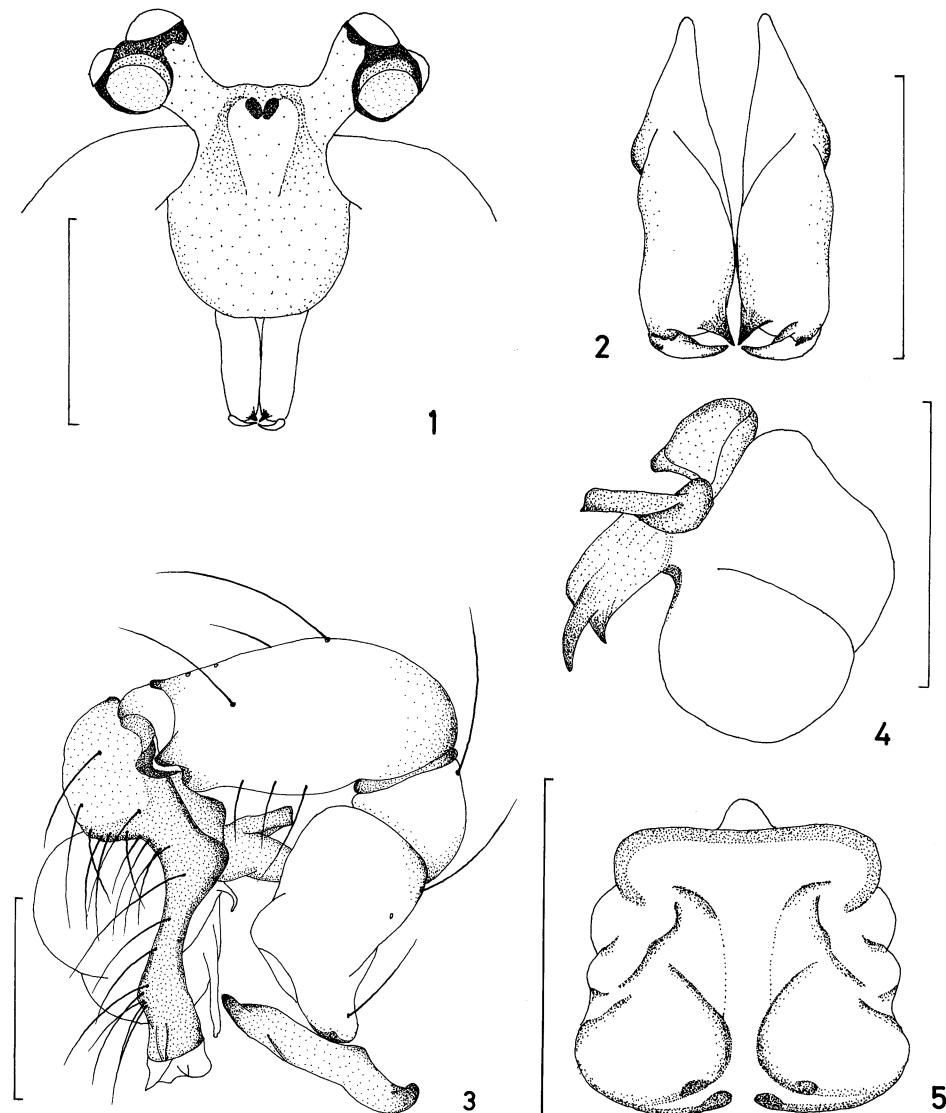
Measurements of holotype and allotype (♂/♀; in mm). Body length 5.62/6.15. Carapace length 1.19/1.29, width 1.20/1.30. Abdomen length 4.43/4.58, width 1.25/1.57. Length of legs as shown in Table 1. Eye sizes: AME 0.02/0.03, ALE 0.17/0.16, PME 0.15/0.17, PLE 0.15/0.16. Distances between eyes: AME-AME 0.02/0.02, PME-PME 0.45/0.25, ALE-ALE 0.60/0.32. OA length 0.30/0.17, width 0.86/0.63. Cp 0.36/0.50.

Male (holotype): Carapace pale yellow, with length nearly equal to width. Eight eyes arranged in three groups as in the genus *Pholcus*, anterior median eyes dark and smallest, and eyes of two triads situated on each protruding turrets. Row of anterior eyes procurved. Chelicera pale brownish yellow, with a short fang and a lamella. Sternum, maxillae and labium pale yellow. Legs very long, pale yellow except patellae

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Figs. 1-5. *Leptopholcus tanikawai* sp. nov. — 1, Male head and chelicerae, anterior view; 2, male chelicerae, ventral view; 3, left male palp, exo-lateral view; 4, same, apical part of the bulb, ventral view; 5, epigynum, ventral view. (Scales: 0.5 mm.)

yellowish brown, and with yellowish brown annulations tips of tibiae and bases of metatarsi. Leg formula 1, 2, 4, 3. Abdomen cylindrical, pale yellow with pale gray patterns.

Male palp: Male palpal organ as in the genus *Pholcus*, the struture as shown in Fig.

Table 1. Measurements of legs of *Leptopholcus tanikawai* sp. nov. (♂/♀; in mm).

Leg	Femur	Patella + Tibia	Metatarsus	Tarsus	Total
I	10.62/9.63	10.62/10.12	20.25/16.50	1.50/1.06	42.99/37.31
II	7.87/7.00	7.50/6.87	12.00/10.75	1.12/1.12	28.49/25.74
III	5.25/4.75	4.62/4.50	6.75/6.12	0.75/0.75	17.37/16.12
IV	7.62/7.25	6.37/6.50	10.81/10.12	0.81/0.93	25.61/24.80

3. Prokursus brown, curved, very similar to the genus *Pholcus*. Trochanter pale brown, slender horizontally, like a flat shoe. Bulb pale, rounded, and with small brownish membranous embolus as shown in Fig. 4.

Female (allotype): Body slightly larger than the male. Legs shorter than those of the male. Eyes in two triads not protruding. Epigynum as shown in Fig. 5.

Type series. Holotype: ♂, Komi, Iriomotejima Island, Taketomi-chō, Okinawa Prefecture, Japan, 27-III-1987, A. Tanikawa leg. (NSMT-Ar 3847); allotype: ♀, Ohara, Iriomotejima Island, 12-VIII-1985, A. Tanikawa leg. (NSMT-Ar 3848).

Other specimens examined. Iriomotejima Island: 1 ♀, Ohara, 12-VIII-1985, A. Tanikawa leg; 2 ♀, Otomi, 30-XII-1986, A. Tanikawa leg; 4 ♀ 5 ♂, 27-III-1987; 1 ♀ 2 ♂, 18-VIII-1988; 1 ♀, 31-XII-1988, Komi, A. Tanikawa leg; 1 ♀, Funaura, 22-VIII-1987, A. Tanikawa leg; 1 ♀, Urauchi, 25-VIII-1990, T. Irie leg. Ishigakijima Island: 2 juv., Mt. Banna-dake, Ishigaki-shi, 3-XI-1994, T. Irie leg.

Variation (in mm). Body length. ♂ 4.75-5.62, ♀ 5.22-6.32.

Distribution. Ishigakijima Island and Iriomotejima Island, Japan.

Remarks. This new species is similar to *L. sakalavensis* Millot, 1946 known from Madagascar, in the shapes of prokursus and trochanter of male palp, but is easily distinguishable from the latter by the other structure of male palpal organ. This new species is leaf-dwelling pholcid spider.

Etymology. The species is dedicated to Mr. Akio Tanikawa, Kanagawa Prefecture, Japan.

摘要

石垣島、西表島に産する *Leptopholcus* マシラユウレイグモ属(新称)の1新種を *Leptopholcus tanikawai* sp. nov. ヤエヤマユウレイグモ(新称)として命名して記載した。

Leptopholcus は今まで、アフリカやマダガスカル、ボルネオ、ブラジルで記録されていたユウレイグモ類で、日本新記録属となる。

References

Brignoli, P. M., 1980. III. Sur le genre *Leptopholcus* Simon, 1983 (Araneae, Pholcidae). *Revue Zool. afr.* **94**: 649-655.
 Millot, J., 1946. Les Pholcides de Madagascar. *Mém. Mus. natn. Hist. nat. Paris* (N.S.), **22**: 127-158.
 Simon, E., 1893. Histoire naturelle des araignées. **1**(2): 257-488. Paris.